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| Application Number | 10/066,094 |
| Filing Date | 01/31/2002 |
| First Named Inventor | Steven Teig |
| Group Art Unit | 2826 |
| Examiner Name | Mandala, V. |
| Total Number of Pages in This Submission | Attorney Docket Number |
| | SPLX.P0080 |

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| Firm Or Individual name | Mani Adeli, Reg. No. 39,585 of Stattler Johansen & Adeli LLP |
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| Date | May 14, 2004 |

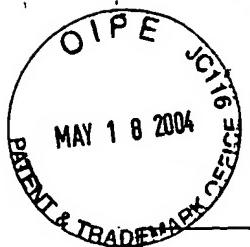
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PATENT
Docket No. SPLX.P0080

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Mani Adeli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Steven Teig, et al.

Serial No.: 10/066,094

Filing Date: 1/31/2002

For: **CIRCULAR VIAS AND
INTERCONNECT-LINE TERMINATIONS**

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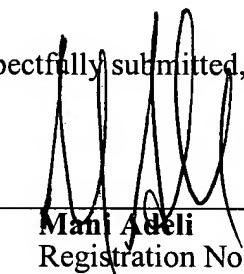
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Dated: May 14, 2004

Respectfully submitted,
By: _____

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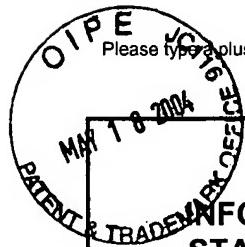
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| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Application Number | 10/066,094 |
| Sheet | 1 | of | 3 | Filing Date | 1/31/02 |
| | | | | First Named Inventor | Steven Teig et al. |
| | | | | Group Art Unit | 2826 |
| | | | | Examiner Name | Mandala, Victor |
| | | | | Attorney Docket Number | SPLX.P0080 |

| RELATED U.S. PATENT APPLICATIONS | | | | | | Related Application Data | |
|----------------------------------|--------------------------|----------------------------|---------------------------|---|------------------------------|--|--|
| *Examiner* Initials | Cite No. ¹ | U.S. Patent Application | | Name of Patentee or Applicant of Cited Document | Date of Filing MM-DD-YYYY | | |
| | | Serial Number | Attorney Docket Number | | | | |
| . | 1. | 10/066,060 | SPLX.P0072 | Steven Teig | 01-31-2002 | Application with the same specification and drawings as the present application, with the exception of summary and abstract. | |
| . | 2. | 10/066,160 | SPLX.P0073 | Steven Teig et al. | 01-31-2002 | Application with the same specification and drawings as the present application, with the exception of summary and abstract. | |
| . | 3. | 10/066,095 | SPLX.P0074 | Steven Teig et al. | 01-31-2002 | Application with the same specification and drawings as the present application, with the exception of summary and abstract. | |
| . | 4. | 10/066,047 | SPLX.P0078 | Steven Teig et al. | 01-31-2002 | Application with the same specification and drawings as the present application, with the exception of summary and abstract. | |
| . | 5. | 10/061,641 | SPLX.P0079 | Steven Teig et al. | 01-31-2002 | Application with the same specification and drawings as the present application, with the exception of summary and abstract. | |
| . | 6. | 10/076,121 | SPLX.P0081 | Steven Teig | 02-12-2002 | CIP of the present application. | |
| . | 7. | 10/062,995 | SPLX.P0105 | Steven Teig et al. | 01-31-2002 | Application with the same specification and drawings as the present application, with the exception of summary and abstract. | |
| . | 8. | 10/066,102 | SPLX.P0106 | Steven Teig | 01-31-2002 | Application with the same specification and drawings as the present application, with the exception of summary and abstract. | |
| . | 9. | 10/066,187 | SPLX.P0133 | Steven Teig et al. | 01-31-2002 | Application with the same specification and drawings as the present application, with the exception of summary and abstract. | |
| . | 10. | 10/233,202 | CDN.P0008 | Steven Teig | 08-28-2002 | Per the preliminary amendment dated 5/30/03, this application is a CIP of the present application. | |
| . | 11. | 10/229,196 | CDN.P0009 | Steven Teig | 08-26-2002 | Per the preliminary amendment dated 5/30/03, this application is a CIP of the present application. | |

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| Sheet | 2 | of | 3 | Filing Date | 1/31/02 |
| | | | | First Named Inventor | Steven Teig et al. |
| | | | | Group Art Unit | 2826 |
| | | | | Examiner Name | Mandala, Victor |
| | | | | Attorney Docket Number | SPLX.P0080 |

RELATED U.S. PATENT APPLICATIONS

| | | | | | | |
|---|-----|------------|-----------|-------------|------------|--|
| . | 12. | 10/288,870 | CDN.P0010 | Steven Teig | 11-06-2002 | Per the preliminary amendment dated 5/30/03, this application is a CIP of the present application. |
| . | 13. | 10/219,923 | CDN.P0011 | Steven Teig | 08-14-2002 | Per the preliminary amendment dated 5/30/03, this application is a CIP of the present application. |

FOREIGN PATENT DOCUMENTS

| Examiner* Initials | Cite No. ¹ | Foreign Patent Document | | Date of Publication MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|-----------------------|--------------------------|-------------------------|--|-----------------------------------|--|---|----------------|
| | | Office ³ | Number ⁴ (if known) ⁵ | | | | |
| . | 14. | JP | 03-173471 | 07-26-1991 | Tawada et al. | with Japanese Patent Office's English translation of Abstract; and with English translation of the application. | ✓ |
| . | 15. | JP | 04-000677 | 01-06-1992 | Fujiwara et al. | with English translation of Abstract; | |
| . | 16. | JP | 05-102305 | 04-23-1993 | Sato | with Japanese Patent Office's English translation of Abstract; and with English translation of the application. | ✓ |
| . | 17. | JP | 05-243379 | 09-21-1993 | Kubota | with Japanese Patent Office's English translation of Abstract; and with English translation of the application. | ✓ |
| . | 18. | JP | 07-086407 | 03-31-1995 | Miura | with Japanese Patent Office's English translation of Abstract; | ✓ |

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| | | | | Group Art Unit | 2826 |
| | | | | Examiner Name | Mandala, Victor |
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| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|----|-------------|------------|-----------------|---|---|
| . | . | . | . | . | and with English translation of the application. | . |
| 19. | JP | 09-162279 | 06-20-1997 | Yoshida | with Japanese Patent Office's English translation of Abstract; and with English translation of the application. | ✓ |
| 20. | JP | 2000-082743 | 03-21-2000 | Igarashi et al. | with Japanese Patent Office's English translation of Abstract; and with English translation of the application. | ✓ |

| NON PATENT LITERATURE DOCUMENTS | | | | | | |
|---------------------------------|-----------------------|---|--|--|--|----------------|
| Examiner* Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | T ⁶ |
| | 21. | Berger, B. et al., Nearly Optimal Algorithms and Bounds for Multilayer Channel Routing, Journal of the Association for Computing Machinery, pp. 500-542, March 1995. | | | | |
| | 22. | Chen, H., Routing L-Shaped Channels in Nonslicing-Structure Placement. 24 th ACM-IEEE Design Automation Conference, pp. 152-165, 1987. | | | | |
| | 23. | Cheng, K. et al., Manhattan or Non Manhattan? A Study of Alternative VLSI Routing Architectures, pp 47-52, 2000. | | | | |
| | 24. | Chiang, C. et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991. | | | | |
| | 25. | NN71091316, Use of Relatively Diagonal And Rectangular Wiring Planes n Multilayer Packages, September 1971, IBM Technical Disclosure Bulletin, Vol. No. 14, Issue No. 4, pp. 1316-1317. | | | | |
| | 26. | Overtone, G., EDA Underwriter 2 Finding Space in a Multi-Layer Board, Electronic Engineering, Morgan-Grampian LTD, March 1995, vol. 67, no. 819, pp 29-30. | | | | |

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